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**UTILITY
PATENT APPLICATION
TRANSMITTAL**

(only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	1875.0980002
First Inventor	Arya Reza Behzad
Title	Large Dynamic Range Programmable Gain Attenuator
Express Mail Label No.	

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO:Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original, and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.
See 37 CFR 1.27.
3. ☒ Specification [Total Pages 27]
(preferred arrangement set forth below)
- Descriptive title of the Invention
- Cross Reference to Related Applications
- Statement Regarding Fed sponsored R & D
- Reference to sequence listing, a table,
or a computer program listing appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 34]
5. Oath or Declaration [Total Pages 4]
a. ☐ Newly executed (original or copy)
b. ☒ Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 18 completed)
i. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s)
named in the prior application, see 37 CFR
1.63(d)(2) and 1.33(b).
6. ☒ Application Data Sheet. See 37 CFR 1.76.

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program
(Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
a. ☐ Computer Readable Form (CRF)
b. Specification Sequence Listing on:
i. ☐ CD-ROM or CD-R (2 copies); or
ii. ☐ paper
c. ☐ Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. ☒ Assignment Papers (cover sheet & document(s))
10. ☒ 37 CFR 3.73(b) Statement ☒ Power of Attorney
(when there is an assignee)
11. ☐ English Translation Document (if applicable)
12. ☒ Information Disclosure Statement (IDS)/PTO-1449 ☒ Copies of IDS Citations
13. ☒ Preliminary Amendment
14. ☒ Two (2) Return Receipt Postcards (MPEP 503)
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)
16. ☐ Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. ☒ Other: Authorization under 37 C.F.R. § 1.136(a)(3)
☒ Other: The name of the assignee is: Broadcom Corporation

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☒ Continuation ☐ Divisional ☐ Continuation-in-Part (CIP) of prior application No: 09/712,410
Prior application information: Examiner Choe, H. Art Unit: 2817

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS☒ Customer Number **26111**or ☐ Correspondence address below

NAME	STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.				
	Attorneys at Law				
ADDRESS					
CITY		STATE		ZIP CODE	
COUNTRY		TELEPHONE		FAX	

NAME (Print/Type)	Timothy A. Doyle	Registration No. (Attorney/Agent)	51,262
SIGNATURE	<i>Timothy A. Doyle</i>	Date	18 FEB 04

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the COMPLETED application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

Complete if Known

Application Number	To be Assigned
Filing Date	February 18, 2004
First Named Inventor	Arya Reza Behzad
Examiner Name	To Be Assigned
Art Unit	To Be Assigned
Attorney Docket No.	1875.0980002

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 864.00)

METHOD OF PAYMENT (check all that apply)

☐ Check ☒ Credit card ☐ Money Order ☒ Other** ☐ None
 ** Charge any deficiencies or credit any overpayments in the fees or fee calculations of Parts 1, 2 and 3 below to Deposit Account No. 19-0036.

☐ Deposit Account

Deposit Account Number 19-0036

Deposit Account Name: Sterne, Kessler, Goldstein & Fox P.L.L.C.

The Commissioner is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Credit any over payments

☐ Charge any additional fee(s) during the pendency of this application

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
1001	770	2001	385	Utility filing fee	770.00
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1105	160	2005	80	Provisional filing fee	

SUBTOTAL (1) (\$ 770.00)

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Extra	Fee from below	Fee Paid
Total Claims 23 - 20** = 3	X 18.00	= 54.00
Indep. Claims 3 - 3** = 0	X 86.00	= 0
Multiple Dependent	290.00	= 0

Large Entity Fee Code	Small Entity Fee Code	Fee (\$)	Fee (\$)	Fee Description
1202	18	2202	9	Claims in excess of 20
1201	86	2201	43	Independent claims in excess of 3
1203	290	2203	145	Multiple dependent claim, if not paid
1204	86	2204	43	**Reissue independent claims over original patent
1205	18	2205	9	**Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$ 54.00)

**or number previously paid, if greater; For Reissue, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
1051	130	2051	65	Surcharge - late filing fee or oath	
1502	50	2052	25	Surcharge-late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for <i>ex parte</i> reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40.00
1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify) _____

* Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 40.00)

SUBMITTED BY

Name (Print/Type)

Timothy A. Doyle

Registration No. (Attorney/Agent)

51,262

Complete (if applicable)

Telephone

202-371-2600

Signature

Timothy A. Doyle

Date

18 FEB 04

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. #210928V1<SKGF DC1> - 1875.0980002-PTO Fee Transmittal Form - PTO-SB-17 .wpdSKGF Rev. 10/20/03 svb

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option



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*Admitted only in Virginia
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Federal Agencies

February 18, 2004

WRITER'S DIRECT NUMBER:

(202) 772-8774

INTERNET ADDRESS:

TDOYLE@SKGF.COM

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Mail Stop Patent Application

Re: U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)
(Continuation of Appl No. 09/712,410; Filed: November 13, 2000)

For: **Large Dynamic Range Programmable Gain Attenuator**

Inventor: Arya Reza Behzad

Our Ref: 1875.0980002/JTH/TAD

Sir:

The following documents are forwarded herewith for appropriate action by the U.S.
Patent and Trademark Office:

1. PTO Fee Transmittal (Form PTO/SB/17);
2. PTO Utility Patent Application Transmittal (Form PTO/SB/05);
3. U.S. Utility Patent Application entitled:

Large Dynamic Range Programmable Gain Attenuator

and naming as inventor:

Arya Reza Behzad

the application consisting of:

- a. An Application Data Sheet (37 C.F.R. § 1.76);

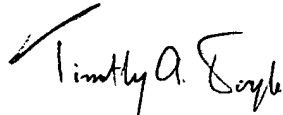
- b. A copy of the executed Declaration and Power of Attorney for Patent Applications, as originally filed in U.S. Appl. No. 09/712,410;
 - c. A copy of the executed Supplemental Declaration, as originally filed in U.S. Appl. No. 09/712,410;
 - d. A specification containing:
 - i. 23 pages of description prior to the claims;
 - ii. 3 pages of claims (18 claims);
 - iii. a one (1) page abstract; and
 - e. 34 sheets of drawings: (Figures 1A-1B and 2-34); and
- 4. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3);
 - 5. Recordation Form Cover Sheet;
 - 6. A copy of the executed Assignment to Broadcom Corporation, as filed in U.S. Appl. No. 09/712,410, recordation of which is hereby respectfully requested;
 - 7. A copy of the executed Revocation of Prior Power of Attorney and Appointment of New Attorneys of Record as filed in U.S. Appl. No. 09/712,410;
 - 8. A copy of the executed Certificate under 37 C.F.R. § 3.73(b) from Assignee with a copy of the Assignment attached as filed in U.S. Appl. No. 09/712,410;
 - 9. A Preliminary Amendment Under 37 C.F.R. § 1.115;
 - 10. Request to Approve Proposed Drawing Corrections with "Annotated Sheet Showing Changes" and "Replacement Sheet" for Figures 26-30;
 - 11. An Information Disclosure Statement (IDS);

12. Forms PTO-1449 (2 pages) with 21 accompanying documents;
13. Letter to the Draftsman: Submission of Formal Drawings;
14. 26 sheets of formal drawings, approval of which is respectfully requested;
15. Two (2) return postcards; and
16. Form PTO-2038 Credit Card Payment Form for \$ 864.00 to cover:
 - \$ 770.00 Filing fee for patent application;
 - \$ 40.00 Assignment recordation fee; and
 - \$ 54.00 Fee for excess claims.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Timothy A. Doyle
Attorney for Applicant
Registration No. 51,262

TAD/JTH:slw
Enclosures

SKGF_DC1:210713.1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Arya Reza Behzad

Appl. No. *To Be Assigned*
(Continuation of Appl. No. 09/712,410)

Filed: February 18, 2004

For: **Large Dynamic Range**
Programmable Gain Attenuator

Confirmation No. *To Be Assigned*

Art Unit: *To Be Assigned*

Examiner: *To Be Assigned*

Atty. Docket: 1875.0980002

Request to Approve Proposed Drawing Corrections

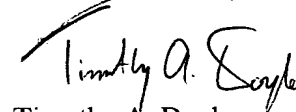
Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

Attached are two (2) sets of copies of each of four (4) sheets of drawings, containing proposed corrections to Figures 26-30. Each sheet in the first set is labeled "Annotated Sheet Showing Changes". Changes are shown in red in compliance with 37 C.F.R. § 1.84. Each sheet in the second set is labeled "Replacement Sheet". The proposed changes add no new matter to this application. Applicant requests that the Examiner approve the proposed corrections.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Timothy A. Doyle
Attorney for Applicant
Registration No. 51,262

Date: 18 FEB 04

1100 New York Avenue, N.W.
Washington, D.C. 20005-3934
(202) 371-2600

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Arya Reza Behzad

Appl. No. *To Be Assigned*
(Continuation of Appl. No. 09/712,410)

Filed: February 18, 2004

For: **Large Dynamic Range**
Programmable Gain Attenuator

Confirmation No. *To Be Assigned*

Art Unit: *To Be Assigned*

Examiner: *To Be Assigned*

Atty. Docket: 1875.0980002

Letter to PTO Draftsman: Submission of Formal Drawings

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith are 26 sheets of formal drawings with Figures 1A-1B, and 2-34, corresponding to the informal drawings submitted with the above-captioned application. Identification of the drawings is provided in accordance with 37 C.F.R. § 1.84(c). Acknowledgment of the receipt, approval, and entry of these formal drawings into this application is respectfully requested.

It is not believed that an extension of time is required, other than any already provided herewith. However, if an extension of time is needed to prevent abandonment of the application, then such extension of time is hereby petitioned. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Timothy A. Doyle
Attorney for Applicant
Registration No. 51,262

Date: 18 FEB 04

1100 New York Avenue, N.W.
Washington, D.C. 20005-3934
(202) 371-2600

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Arya Reza Behzad

Appl. No. *To Be Assigned*
(Continuation of Appl. No. 09/712,410)

Filed: February 18, 2004

For: **Large Dynamic Range
Programmable Gain Attenuator**

Confirmation No. *To Be Assigned*

Art Unit: *To Be Assigned*

Examiner: *To Be Assigned*

Atty. Docket: 1875.0980002

22858 U.S. PTO
10/779769



**Authorization To Treat A Reply As Incorporating An Extension Of
Time Under 37 C.F.R. § 1.136(a)(3)**

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

The U.S. Patent and Trademark Office is hereby authorized to treat any concurrent or future reply that requires a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. The U.S. Patent and Trademark Office is hereby authorized to charge all required extension of time fees to our Deposit Account No. 19-0036, if such fees are not otherwise provided for in such reply.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Timothy A. Doyle
Attorney for Applicant
Registration No. 51,262

Date: 18 FEB 04

1100 New York Avenue, N.W.
Washington, D.C. 20005-3934
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